

TECHNICAL DATA SHEET

Article No. 9394

Nutrient Agar DEV, prepared plates

SPECIFICATION

Medium for determining total microbial count in water acc. to the German Standard Methods (Deutsche Einheitsverfahren), the German Drinking Water Regulations (Trinkwasser-Verordnung) and the German regulation for food examination (§ 35 LMBG).

Color: yellowish
pH: 7.3 ±0.2 at 25 °C

COMPOSITION IN G/L

Meat extract	10.0
Peptone	10.0
Sodium chloride	5.0
Agar	18.0

PACKAGING DETAILS

9394-20PLATES

20 prepared plates 90 mm

Content: 21 ±2 ml

Packaging unit: 1 box with 2 packs of 10 plates/pack. Single cellophane.

GUIDELINES

Description:

Nutrient Agar is most suitable for general routine work and can support the growth of common organisms, even those considered mildly fastidious with regard to nutrient elements.

Technique:

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results. Incubate the plates aerobically at 35 ±1 °C or 20 ±2 °C for 44 ±4 h. Incubation times greater than these or different incubation temperatures may be required depending on the sample and on the specifications.

This medium can be inoculated directly or after enrichment broth. After incubation, enumerate all the colonies that have appeared on the agar surface.



Each laboratory must evaluate the results according to their specifications.
 Calculate total microbial count per ml of sample by multiplying the average number of colonies per plate by the inverse dilution factor if streaked a diluted sample. Report results as Colony Forming Unit (CFU's) per ml or g along with incubation time and temperature.

MICROBIOLOGICAL CONTROL

Inoculate: Practical range 100 ±20 CFU. Min. 50 CFU (productivity).

Analytical methodology acc. to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 35 ±2 °C reading at 44 ±4 h.

Microorganism	Growth
<i>Escherichia coli</i> ATCC® 25922, WDCM 00013	Good (≥70 %)
<i>Bacillus subtilis</i> ATCC® 6633, WDCM 00003	Good (≥70 %)
<i>Ps. aeruginosa</i> ATCC® 27853, WDCM 00025	Good (≥70 %)
<i>Salmonella typhimurium</i> ATCC® 14028, WDCM 00031	Good (≥70 %)
<i>Stph. aureus</i> ATCC® 25923, WDCM 00034	Good (≥70 %)
<i>Klebsiella pneumoniae</i> ATCC® 13883, WDCM 00097	Good (≥70 %)
<i>Aeromonas hydrophila</i> ATCC® 7966, WDCM 00063	Good (≥70 %)
<i>Streptococcus pyogenes</i> ATCC® 19615	Good (≥70 %)

Sterility control:

Incubation 48 hours at 30-35 °C and 48 hours at 20-25 °C: NO GROWTH.

Check at 7 days after incubation in same conditions.

BIBLIOGRAPHY

- BUNDESGESUNDHEITAMT: Amtliche Sammlung von Untersuchungsverfahren nach §35 LMBG. Beuth Verlag Berlin- Köln. VERORDNUNG von 12/12/1990 über Trinkwasser und über Wasser für Lebensmittelbetriebe. Bundesgesetzblatt: Teil I:2613-2629.
- DEUTSCHE EINHEITSVERFAHREN zur Wasser-, Abwasser- und Schlammuntersuchung. VCH Verlagsgesellschaft, D-6940 Weinheim.

STORAGE

2-14 °C

SHELF LIFE

3 months

